Applicant: Kingsley-Pierson CSD – NW Region

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Name of Individual Submitting Application:
Erin Hoffman

Executive Summary

In 500 words or less, summarize the school district's, non-public school system's or accredited, stand-alone non-public school's vision for your Computer Science is Elementary initiative.

Kingsley Elementary aspires to be the computer science model school for small, rural districts across the state of Iowa. As a district, we are overlooked for these opportunities because of our size and free and reduced population. Our application is unique for several reasons. Kingsley-Pierson Community School District has put time, energy, and resources into starting a sustainable computer science program and Kingsley Elementary will continue this progress to ensure we are successful in creating a strong program that is inclusive to all students.

Our cornerstone started with the high school web design class around 2006 and has expanded to a 6-12th grade computer science program that includes robotics, STEM, information systems and cooperative coding with our high school. The effort we have put forth has been recognized by Governor Kim Reynolds, as Kingsley-Pierson was acknowledged for our progress in computer science professional development in her 2019 Condition of the State Address. The barriers to our plan of creating a rich curriculum have been availability of resources, quality relevant professional development, and exposure to the benefits of living in an urban community. Although we have challenges, we continue to find innovative methods to make a K-12 computer science curriculum a reality!

Kingsley Elementary computer science is not just a school wide initiative. We are part of a district, community, northwest Iowa, and statewide effort to bring authentic 21st century skills into the classroom using programming. We will collaborate with community members, parents, business partners, the region, and the state to showcase our work with students. Showing the importance of teaching computer science and the lasting positive effects it has for the future of our students is beneficial to our initiative. Kingsley Elementary looks forward to continuing a relationship with Loess Hills Computer Programming Specialty School to collaborate and to show other schools in the area and around the state two perspectives of how a high-quality computer science curriculum can be integrated into the standards of the Iowa Core and existing content. Kingsley-Pierson has a unique opportunity to teach our students that computer science is a global resource, and to help them relate computer science to their own surroundings. Students will see and experience the connection between computer science and the growing popularity of programming in rural agriculture.

Kingsley-Pierson school's computer science vision connects to not only our own mission statement but also to the Governor's and the Iowa Department of Education's Future Ready Iowa movement. Within our plan we will provide students the opportunity to realize their potential and work in the classroom and on the job site in an authentic real-world setting with employers to explore careers. These experiences will allow students to see what careers are available within the state of Iowa and within their own communities.

This award can provide us with the essentials to make our program even stronger and provide our students with the opportunity to experience a computer science curriculum on a regular basis that is being presented within the content and with fidelity.

Demographics

Points Awarded: / 10

10 points

What is the name of the district, system or stand-alone non-public school making the application?
Kingsley-Pierson Community School District

What is the name of elementary school(s) that will participate in Computer Science is Elementary?
Kingsley Elementary School

What grades does the participant building(s) serve?
Kindergarten - 4th grade

Provide the name, email address and phone number of the primary lead for the application.
Erin Hoffman, ehoffman@k-pcsd.org, 712-378-2861

Provide the name, email address and phone number of the fiscal agent or business manager who will handle reimbursement if awarded.
Laurie Schweitzberger

lschweitzberger@k-pcsd.org

712-378-2861

In what STEM region is the district/system/stand-alone non-public school located? (https://iowastem.gov/regions)

Based on Student Reporting in Iowa (SRI) Oct. 1, 2018, reporting, what percentage of students in the participating elementary school(s) are eligible for free and reduced-price lunch?
43.14%

Based on SRI Oct. 1, 2018, reporting, what percentage of students in participating elementary school(s) are underrepresented populations in the field of computer science (African-American, Hispanic, American Indian/Alaskan, Native Hawaiian/Pacific Islander)?
Total Enrollment K-4 is 160

American Indian 2 students (1.2%)

Asian 2 students (1.2%)

Black 6 students (3.7%)

Pacific Islander 0 students (0%)

Hispanic 11 students (6.8%)

Total 21 students (13.1%)

According to Code.org, “The fields of software, computing and computer science are plagued by tremendous underrepresentation of women, African Americans, and Hispanics. In high school, the Advanced Placement exam in Computer Science has the worst gender diversity across all courses, with 78 percent participation by men and 22 percent by women. Participation by students of color is 13 percent. These underrepresented groups represent 65 percent of the entire US population!”

In addition to the populations that were requested in this question, we also believe that KP can reach additional underrepresented populations. In an article from WIRED Magazine on March 27, 2018, states that, “... the number of women studying CS has been falling pretty steadily since the 80s, despite the increase in demand for these types of skills.” Females are another group that is underrepresented in regard to computer science education. Kingsley Elementary student population is 47% female. Our goal is to ensure that we provide equity to all students in our Computer Science initiative.

Kingsley-Pierson is an isolated, rural community. This prevents several of our students and the school from having access to reliable internet as well as opportunities to connect to and access digital learning tools, educational materials, and real-life opportunities. A significant amount of students, 44%, live in the country or in the small town of Pierson, Iowa.

Goals and Measurements

Points Awarded: / 20

20 points

What are the measurable goals for the Computer Science is Elementary initiative in the district/system/stand-alone non-public school?
We plan to use several different assessment tools to gauge our progress in our implementation. Using district wide assessments like the Formative Assessment System for Teachers (FAST) and Iowa Statewide Assessment of Student Progress (ISASP) that are already in place will help us measure whether we are making gains within our content areas. We hope to be able to make some correlations between past assessment data and future results and its relationship to applying a computer science curriculum. Classroom formative and summative assessments will also be used to monitor student achievement. These assessments will look different in each classroom as we will give teachers the autonomy to

select what assessments are appropriate for their students during the school year. We will ask our teachers to review their data and reflect on the school and classroom goals at the end of each quarter and collectively at the end of the year. Making instructional adjustments along the way will help to ensure that we are being effective in our plan and meeting our goals.

Through this process, we have learned from the model school at Loess Hills Computer Programming Specialty School that it is very hard to determine if progress in student achievement is related to the computer science curriculum or not. Kingsley Elementary has decided to set goals that relate to classroom, access, skills, and environment that we can measure. We also want to set goals for students and teachers as they will also be growing through this process.

District Objectives:
Demonstrate proficiency in the use of computers and applications as well as an understanding of the concepts underlying hardware, software and connectivity.

- Basic Operations
- Word Processing
- Spreadsheet (Tables/ Charts and Graphs)
- Multimedia and Presentation Tools

Demonstrate the responsible use of technology and an understanding of ethics and safety issues in using electronic media at home, in school and in society

- Acceptable Use, Copyright and Plagiarism

Demonstrate the ability to use technology for research, critical thinking, decision making, communication and collaboration, creativity and innovation.

- Research and Gathering Information
- Communication and Collaboration

Currently we are at the proficient level in using the four C's. Using Bright Bytes data, we will increase teacher online skills and multimedia skills to an advanced level.

Currently we are at the emerging level using Bright Bytes data, we will increase teacher and student digital citizenship to a proficient level.
Currently we are at the proficient level in professional learning of technology. Using Bright Bytes data, we will increase to the advanced level.

Goals:
Students

- 80% of students attending Kingsley Elementary will be proficient in reading on the statewide assessment.
- 80% of students attending Kingsley Elementary will be proficient in math on the statewide assessment
- 75% of students attending Kingsley Elementary will be confident in finding a solution when they have a problem with technology.
- 80% of students attending Kingsley Elementary will be able to identify 5 careers that use computer science

Teachers

- 100% of Kingsley Elementary teachers will have instructed at least one lesson with computer science implementation.

Year 1

  - 85% of Kingsley Elementary teachers will have instructed one lesson a quarter with computer science implementation.

Year 2

  - 100% of Kingsley Elementary teachers will have instructed one lesson a quarter with computer science implementation.
  - 70% of Kingsley Elementary students will be exposed to Digital Citizenship lessons each month
  - 80% of Kingsley Elementary teachers will ask students to identify and solve authentic problems using technology

How do these goals tie to the larger district/system/stand-alone non-public school goals, mission, and vision?
At Kingsley-Pierson Community School District, our mission is to champion excellence in education through leadership and service. We are committed to ensuring that all Kingsley-Pierson students have access to a network of services that allows them to realize their potential. Through education we strive to build a quality of life which sets the standard for Iowa.

Kingsley-Pierson wants to ensure that we are preparing our students for the next step whether that is educationally or in a career. We will work to make sure that our elementary students are ready to handle the rigor of the next step in our CS curriculum.

According to the Senate File 247 signed by Governor Reynold is 2017, the state of Iowa has set a goal that every student will graduate from high school having had computer science instruction. Kingsley-Pierson CSD would like to expand upon that goal and ensure that all students in the district are exposed to a computer science curriculum at all levels of their education.

How will the district/system/stand-alone non-public school measure the success of the plan using student data, with an emphasis on achievement and engagement?
Bright Bytes is a tool that the district has used in the past to gather data on students' and teachers' digital skills. With this survey tool, the district can gather data on learning outcomes from students, teachers, and parents. Kingsley Elementary staff will review the data in the fall and spring. It is important that we use this information to help us make instructional decisions in the classroom and with professional development moving forward to ensure that our teachers are successful with our CS implementation.

Kingsley Elementary will use surveys (Google Forms) as a formative assessment to gather feedback from teachers on their experience with implementing computer science into their classroom. Their input is essential to having a successful program. We will also want to gather input from our business and community members that are supporting our computer science initiative. Following our shared vision is important, without their support we will not be able to provide the strong career focused plan we have created.

Plan

Points Awarded: / 40

40 points

Describe how the plan will be launched or built upon an existing computer science education in the proposed participating elementary school(s).
Kingsley Elementary has taken many steps to prepare for a computer science program. Unfortunately we have done all that we are able to do up to this point to carry out a computer science curriculum in the elementary. These funds will allow us to continue making progress in providing computer science curriculum for our elementary students and complete a strong, sustainable, technology rich, career focused, K-12 computer science program at Kingsley-Pierson Community School District.

Leading up to the start of this application these are the steps that Kingsley has taken to bring computer science to its students.
2016
- First Hour of Code Event - encouraged all students to complete one hour of code throughout the Computer Science in Education Week (Ongoing)
- High School Coding Buddies - the high school business students partnered with elementary classrooms to mentor students in computer science through the use of Code.org (Ongoing)
- Digital Literacy Coaches attended the Coding is Elementary workshop provided by Code.org

2017
- Bright Bytes - Kingsley-Pierson collected their first set of data using the Bright Bytes platform. Results were used to make decisions regarding professional development

2018
- Computer Science Professional Development Incentive Fund - Kingsley-Pierson applied for the Computer Science Professional Development Incentive Fund to provide professional learning opportunities to new teachers and coaches to be able to provide computer science instruction

2019
- Mentioned by the Governor - Kingsley-Pierson Community School District was mentioned in Governor Kim Reynolds in her Condition of the State address for providing professional development opportunities to our teachers for computer science
- Giant Mars Map - Kingsley-Pierson wrote a grant for the ShareSpace Foundation Giant Mars Map to integrate STEAM and robotics into the science curriculum
- STEM Scale-Up award - Eight of the ten classroom teachers at Kingsley Elementary applied for the Computer Science Fundamentals STEM Scale-Up award for professional development with the Code.org platform
- Site visit to Loess Hills Computer Programming Specialty School (Sioux City) - Three elementary teachers visited and observed classrooms at the computer science model school

Moving forward we will continue to work hard to provide our students with computer science opportunities. The funding from this award will allow us to do so much more without having to seek out creative, innovative, short term solutions. Over the summer our big objective will be curriculum development. Writing a strong curriculum will require teacher-power. Over a several day period, Kingsley Elementary will create a programming/coding curriculum for the elementary students while also updating the core computer science K-12 scope and sequence.

Also that summer, we will procure our technology. This includes updating our infrastructure in the elementary wing of the school. Providing reliable internet access to our students is essential to our plan. We will also have purchased additional Chromebooks, iPads, and programmable devices like Bee Bots and Dots so that a technology rich computer science curriculum is in the hands of all students at Kingsley Elementary.

In the fall of 2019, teachers who were unable to attend the original site visit will travel to Loess Hills Computer Programming Specialty School as a part of their professional development. We want all of our teachers to see what computer science immersed into curriculum and course content look like. This will spark our teachers' creativity in how they can implement the computer science standards into their core content. Ongoing collaboration between Kingsley Elementary and Loess Hills Computer Programming Specialty School will be a goal of the plan. Sending our teachers to professional learning conferences that focus on technology and that provide workshops for computer science will be the next step. Gathering ideas from others and networking with other schools and teachers that teach computer science will help us to elevate our program to the next level. We want our teachers to grow right alongside of our students and by sending our teachers to conferences like Iowa Technology and Education Connection (ITEC), Nebraska Educational Technology Association (NETA), and the Iowa 1:1 conference we hope to accomplish this task.

A slow, progressive roll out of the computer science curriculum is in the plan. We do not want to force the implementation and see it fail. We will utilize our Instructional Coach/Digital Literacy Coach and our STEM coach to initially assist with co-teaching lessons and eventually transition in to the classroom teacher providing the instruction independently. Teachers will have the freedom to implement the computer science standards where they feel it is necessary. We will expect all of our teachers to integrate the CSTA computer science standards alongside their Iowa Core standards. We will encourage grade level teachers to collaborate together to create consistency for our students. Ensuring our students are progressing with similar skills set will assist with following our computer science progression. By year two of this plan we will expect teachers to be integrating computer science frequently across all content areas.
Continual reflection and review of assessments data will happen throughout the plan. Instructional decisions will be made based off of these measures. Without this self-evaluation our program will not be as effective as it can be.

The past and future steps laid out in this plan will help us to make the Computer Science is Elementary grant and the Kingsley Elementary Computer Science Curriculum a success for our students.

Impact **Sub-Section Points Awarded: / 10**

What is the plan for computer science instruction by July 1, 2020?
The Kingsley Elementary plan is an extension to an already existing preliminary computer science program. As a district, Kingsley-Pierson CSD has a strong 6-12 Computer Science curriculum that includes Computer Literacy, 8th grade Technology/Careers, Word Processing, Web Design, Intro to Programming, and a Student Tech Team. Our goal is to be a K-12 computer science school that provides all of our students the opportunity to experience a high quality, computer science education.

A 2018 Kingsley-Pierson graduate, Connor Tolliver, explains how the Kingsley-Pierson School District has prepared him to continue his education in computer science and to seek a future computer science related career. Connor also shares what he believes could have sparked for his love of computer science at an earlier age. "Ever since KP started understanding the importance of computer science, I can absolutely say that the district was able to prepare me to continue my education in computer science. Including the Hour of Code events and programming languages used in class, KP has prepared me by teaching me *soft skills*. These skills are absolutely imperative for a career in computer science. Knowledge of programming languages are important, especially in academia; however, for a *career* in computer science, soft skills are just as important, if not more so. Problem solving, critical thinking, and communication are the "big three" soft skills that computer science rely on. These three were utilized and developed mostly during our preparation for the robotics competition. However, they were also developed during other classes. Problem solving and critical thinking were also developed in math and science classes, and communication was developed during speech, English, and social studies classes. Thus, not only did the actual programming classes and events prepare me for a career in computer science, but the rest of the classes and activities prepared me for a career by developing my soft skills which are imperative for a career in the field. However, a full-fledged computer science program with up-to-date technologies and services would be monumental. It would provide so many rich opportunities for students to develop the aforementioned soft skills and programming languages along with fundamental computer science concepts. If I had that opportunity, who knows, I could be even further along in my career than I already am. With the number of computer science jobs and the

demand for more programmers increasing, an elementary computer science program would provide students with a wonderful advantage and a sort of "sneak peek" into the world of computer science, and perhaps pique their interests in the field which could lead to a career. “

Does the plan build on existing computer science instruction or launch a first-time initiative?
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Will computer science be integrated into other subjects or delivered as a stand-alone discipline?
Our goal at Kingsley Elementary will be to integrate computer science within our already existing curriculum and course content. Implementing computer science principles and programming activities within each core classroom as well as other disciplines including specials (art, music, PE), reading intervention classes, and special education. We believe our learning outcomes will produce better results if we can immerse our students in computer science in all areas. The learning objective is for students to experience the benefits of programming like creativity, communication, collaboration, and critical thinking within all areas of our school.

What grade level(s) of students and teachers will be included initially?
We plan to involve all teachers at all grade levels including art, PE, music, and guidance. This award will be geared towards the Kindergarten through 4th-grade students at Kingsley Elementary and will strengthen our existing 6-12 program. Our 5th grade teachers will benefit from professional development to continue to develop their computer science implementation.

What is the plan for expansion to all students in all grades in your school?
As mentioned in a previous response, KP has a strong computer science program in grades 6-12; our missing piece is the elementary grades. Once the curriculum maps include the early grade levels adjustments will need to be made through the whole continuum. If we are able to provide our students with the foundational knowledge base at an early grade we will need to find ways to challenge our students moving forward. As we implement computer science in the K-12 environment, the district will create a new scope and sequence of applied knowledge and skills to ensure we are providing an appropriate, challenging, rich curriculum to all KP students.

Curriculum **Sub-Section Points Awarded: / 10**

What is the plan to identify, revise or write high-quality computer science curriculum aligned to the Iowa Computer Science Standards, 21st Century Skills, Universal Constructs and career exploration?
The curriculum will be the center of a successful program for Kingsley Elementary. Content, instruction, and student achievement are at the forefront of this initiative. We want our focus to be on the learning taking place, not on the tool being used. Using the TPACK Framework will assist us in having a successful technology and computer science

implementation. This framework takes into consideration three aspects of teaching; content, pedagogy, and technology. By balancing these three areas we will be able to implement the computer science and technology skills into the everyday curriculum and coursework.

A team approach will be used to create a high-quality computer science curriculum for Kingsley Elementary. Teachers, coaches, curriculum coordinator, and administrators will make up the team. We will want teachers at all of the grade levels to support us in creating a district-wide scope and sequence for computer science. Due to the fact that we already have a computer science curriculum in place for 6-12th grade students, we will need to adjust the curriculum at other levels if we start our foundation at an earlier level. We want to maintain a rigorous program at all grade levels. The preliminary planning for this curriculum will start during the summer of 2019. Starting our school year with a progressive implementation is our ultimate goal. Kingsley Elementary wants to make sure that our teachers are confident in providing instruction to our students with the support of the Instructional, Digital Literacy, and STEM coaches within the district.

The curriculum team will use several resources as they create the scope and sequence and kindergarten through 4th grade curriculum. Since Iowa has adopted the Computer Science Teachers Association Computer Science Standards this will be the basis of our curriculum. As mentioned before our plan is to immerse computer science into our other content areas that follow the Iowa Core. We do not want to teach a stand-alone computer science class.

Networks and the Internet is one topic covered in the CSTA Computer Science Standards. We will support these benchmarks by using the Common Sense Media Digital Citizenship Curriculum together with our guidance lessons.

The International Society for Technology Education will also be a valuable resource when planning and implementing our curriculum. ISTE provides standards for students, educators, coaches and more. Our plan involves all of these stakeholders so using these standards as a guide we can establish high expectations for all. The ISTE standards present us with a wide range of skills that incorporate many of the 21st Century skills that we are looking to add to our curriculum.

Our computer science curriculum will use a variety of programs and lessons to support the content. Our teachers and school are familiar with the Code.org platform; we will plan to continue using this free service. Code.org has the ability to be used in a wide array of classrooms and it serves as a good tool to use when building a foundation for computer programming. We also plan to use Bee Bots as an introductory programmable device. After visiting Loess Hills Computer Programming Specialty School and seeing a teacher use Bee Bots with her students several of our teachers envisioned how they would use Bee Bots within their curriculum. Tynker and Scratch Jr. are also in our plans for computer programming platforms. They are similar but also provide a unique set of opportunities for our students to explore programming. An elevated programmable device that will be used with our older students will be the Dash robot. Incorporating these devices into the curriculum provides more authenticity and additional ways to work on troubleshooting and tenacity. We envision these programming platforms and devices to be used as an output for students to demonstrate their understanding.

Kingsley-Pierson Community School District is located in isolated, rural, Northwest Iowa and we want to connect our computer science curriculum to our agricultural roots. It is important to us to make the connection between computer science and agricultural life for our students. Farming and agriculture have evolved so much over the past decade and has become a technology rich profession. The use of automation, drones, and GPS software has changed the way in which these jobs are performed. One way we can continue this career exploration is with our connection to Ag in the Classroom which our 2nd and 4th-grade students participate in. Many of our students come from a farming background and many will return to the farm for their career. We want to help make sure that we are encouraging and preparing our students to be successful in whatever career they chose.

When we integrate computer science into the other content areas we are able to make connections for our students and at the same time showcase careers related to technology and computer science. Throughout the kindergarten through 4th-grade scope and sequence we want our students to learn the connection between computer science and the 16 career pathways. We hope to do this with the help from community and business partnerships that will bring authentic computer science to the classroom through guest speakers and work site tours.

Employers will expect our students to have soft skills that will allow them to be independent and productive in the workplace. It is essential that we start working on skills such as communication, critical thinking, and collaboration and computer science lends itself to these skills. The universal constructs of flexibility, adaptability, productivity, and accountability fit right around these 21st century skills. A computer science education is not the only end goal, we want our students to gain valuable life and career skills along the way.

Professional Learning **Sub-Section Points Awarded: / 10**

What is the plan for professional learning in years one (fiscal year 2020) and two (fiscal year 2021), including participants, providers, timeline, instructional pedagogy, curriculum connections, alignment to Iowa standards and school community/employer partner connections?

Professional development is a crucial element in this plan. We need teachers to teach the content and integrate the computer science into the lessons. When teachers are comfortable and confident with educational content and materials that is when they are most effective in the classroom. None of our elementary teachers have a background in computer science but we see that as a welcomed challenge. Twenty-one educators including classroom teachers, interventionists, specials teachers (art, PE, music), and administrators will benefit from professional development through the Computer Science is Elementary grant.

Kingsley-Pierson Community School District has an educator on staff that has a computer science endorsement and serves as the district's Instructional Coach. She will be used to provide in-house professional development to staff as she is familiar with all of the platforms that will be incorporated in the classroom content. Teachers that have taken advantage of the Computer Science Professional Development Incentive Fund such as the high school business teacher and the K-12 STEM coach will be ongoing supports to teachers that are being introduced to computer science. The technology consultants from the AEA are another resource that we will tap into for guidance, resources, and professional development. We have budgeted into our plan the possibility of bringing in a content/software expert to provide professional development to our teachers if needed. The eight teachers that applied for the CS is Fundamental Scale-Up STEM award will attend the 1-day professional development training during the summer of 2019 if they receive the award. Webinars and the use of web-based video conferencing can connect us to experts in the field all around the world. With all of these avenues for professional development we feel confident that we can provide our teachers with the tools to be successful

The emphasis in professional development will be on teaching teachers computer science skills so they can transfer these skills to their students while using their own strategies and teaching styles. PD will also stress the importance of instructional pedagogy. Content that follows the Iowa Core and high-quality instructional practices are the most important element of this plan. We want to focus on students' abilities to comprehend and reproduce the content in a meaningful way and to use the technology with a sense of purpose.

According to Wren Hoffman, the Computer Science Program Consultant for the Iowa Department of Education, there is a possibility that the Computer Science Professional Development Incentive Fund will be available again for the 2019-2020 school year. If this opportunity becomes available again, Kingsley-Pierson Community School District will apply for funding again for professional development. This funding will offset the funds needed for professional development from the Computer Science is Fundamental award to be used in other categories.

Year 1

The curriculum that we create will be introduced at a slow but meaningful rate. The use of co-teaching with teachers with experience in computer science will be used during the first several months of implementation. Depending on the teachers' needs, we will expect classroom teachers to take on the responsibility of computer science instruction be the end of the first semester. Teachers that were unable to visit Loess Hill Computer Science Specialty School will observe classrooms and connect with teachers at the school in the fall of 2019. All of the teachers supported by the Computer Science is Elementary funding will make arrangements to visit one of the high tech, innovative elementary schools in Harrisburg, SD. We will ask all of the teachers to attend a technology focused educational conference where they can learn more about technology implementation and computer science. This will be an opportunity for our teacher to network with other teachers using computer science in their classrooms.

Meeting with our community and business partners will also take place during the early planning stages in Year 1. We will set a plan to bring in guest speakers throughout the year. Our goal will be to bring in a community member to speak to our students about how they use computer science and technology in their job once a quarter. Throughout our students kindergarten through fourth grade year we plan to hit all 16 career pathways to show students how computer science is all around them. Another way we want students to experience computer science in the real world is by visiting job sites. Allowing students to see computer science and programming in real-time through a field trip once a year will be a very valuable asset to our program.

During scheduled professional development time, there will be dedicated time for computer science learning. Each quarter we will focus on a certain content area to help teachers see how computer science practices can be integrated into lessons. This will include completing crosswalks of the standards for the content, computer science, and ISTE. Seeing commonalities in the standards can help ease the implementation of computer science into the curriculum.

1st Quarter - Literacy/ELA
2nd Quarter - Social Studies
3rd Quarter - Science
4th Quarter - Math

Year 2

In year two of our plan we will expand on year one. By year two we hope to be fully implemented into our plan and curriculum. Ongoing professional development will allow us to extend our efforts from year one. Computer science and technology are always changing so the teacher will need to continue to seek out new opportunities to grow and new learning experience to be used in the classroom. It will continue to be an expectation that our teachers attend a

technology conference and that they seek out opportunities to network with other teachers. As mentioned before, Kingsley Elementary wants to be the computer science model school for small, rural districts. With that expectation comes the responsibility to share our successes and challenges so that other schools can learn from what we have done. Teachers will be expected to share what is going on in their classrooms in regard to them implementing computer science into their content. Opening their classroom doors to their colleagues and to teachers across the state will help fulfill the goals of our plan and the plan for the State of Iowa.

Community Engagement **Sub-Section Points Awarded: / 10**

How will the community be engaged?

Community engagement is an important part of our plan and for our school district. Support from the community is critical in a small community. Any new initiative that the school undertakes is more successful when community members are a part of the decision making and when they are updated with the progress. Kingsley Elementary will use several forms of communication to keep community engaged with our plan for implementing computer science in our elementary. Teachers will use classroom newsletters to update families on the progress with the class and the school newsletters will share updates of the elementary's achievement. Submitting stories to our local paper and news stations will enable us to share information within our area of Northwest Iowa.

Kingsley-Pierson Community School District connects with a wide range of individuals through our social media accounts. The district distributes content through Facebook, Twitter, and Instagram. Positive social interactions from community members, families, and past graduates have helped us use social media as a platform to reach others.

There will be multiple tools such as Google Form surveys and email communication will be used to gather feedback from parents and community members. Kingsley Elementary will also collect information and feedback from students in a variety of ways. The Bright Bytes survey will gather data about their technical skills and their perceptions of classroom interactions between students and from teachers. Reflection from students will take the form of journaling and video reflections with Flipgrid. Observation will be used to collect an in the moment snapshot of students abilities and attitudes towards using computer science in the classroom setting.

Kingsley Elementary will hold a special event during Open House in the fall. We will invite parents and community members to come to the school to tell them about our plans for computer science in the 2019-2020 school year. At that point we can share our ideas for curriculum, explain what skills and programs will be used in the classrooms, and let them try out some of the devices.

Our plans to continue to provide family members with resources will be to add an additional page to our school website that is dedicated to computer science in the elementary. This website, maintained by the high school student tech team, will contain information about what is happening in our classroom. Progress made on our plan for implementation and resources for families to use at home. We will provide links to programs and other resources used in the classroom so that parents, students, and families can continue to work on computer science outside of the school.

Parent/teacher conferences are the perfect time for teachers to share with parents the skills and successes that each individual student has worked on within the computer science curriculum. Parents will have the opportunity to have their questions asked regarding the computer science curriculum. During this time we will give students and parents and opportunity to work together with computer science. A lab will be set up with activities for families to work together. Parents can see what computer science looks like for their student and students can showcase their skills to their parents. By creating this time for families to work together we can build a strong connection to computer science, family, and school.

How will parents and a broader stakeholder group be involved in planning and implementation of the Computer Science is Elementary initiative?

The most effective way for our stakeholders to assist us with planning and implementation of our plan is to create a Kingsley-Pierson Computer Science Advisory Committee. This format will similar to the advisory teams that are used in the Career and Technical Education (CTE) classes. Kingsley Elementary will reach out to a wide variety of individuals to serve on this committee. We envision the committee to be composed of administrators, both classroom teachers and teachers that assisted in the creation of the curriculum, school board members, parents, our community and business partners, professionals and advisors in computer science, community colleges, and other regional advisors like Mary Trent from the Northwest Iowa STEM region. All of these voices will provide us with input that will assist us in staying current with our curriculum, instruction, and our vision for a strong computer science program at Kingsley-Pierson.

Who are or will be the community/employer partner(s) and what is the shared vision for engagement?

Our current community and business partners are the Panther Ball Committee, WiaTel (through a grant from Aureon), and RTI to name a few. Even after this application is submitted, the grant writing team will continue to seek out additional partners. To sustain this program we will need the classroom and financial support from our community and region. The world of computer science and technology are constantly changing and for our program to stay relevant we will need to update and seek new and additional opportunities for our students.

Kingsley Elementary shares a vision for our students with our community and business partners. As a collective group, we want to see our students succeed academically, socially, and be prepared for the demands of their future education

and/or career goals. Adding a computer science facet to our already existing Iowa Core curriculum will allow students to gain important 21st century and technology skills by engaging in a high-quality computer science curriculum and career exploration.

All applicants must have at least one community/business partner. Please include at least one signed letter of commitment (in PDF format) on employer letterhead from a community/business partner. Up to 10 employer letters may be added. This must be done in order for the application to be considered complete.
The following businesses have committed to partner with Kingsley Elementary School in our computer science efforts. These partnerships include guest speaker appearances to our classrooms, field experience opportunities to workplaces/job sites for our students to experience the real world applications of computer science, or financial support.

Financial Partners

- Agri Business - Financial Sponsor and Guest Speaker
- Dirt Road Designs - Financial Sponsor, Guest Speaker, and Field Experience
- Lammers Automotive - Financial Sponsor, Guest Speaker, and Field Experience
- Panther Ball - Financial Sponsor
- Seglem Farms - Financial Sponsor and Field Experience
- WiaTel - Financial Sponsor and Guest Speaker

Field Experience Partners

- CW Suter - Guest Speak and Field Experience
- Titan Machinery - Guest Speaker and Field Experience

Guest Speaker Partners

- First Cooperative Association - Guest Speaker
- Gelita USA - Guest Speaker
- H&H Builders - Guest Speaker
- Jim Harvey Agency - Guest Speaker
- Riverside Technologies, Inc. - Guest Speaker

Budget

Points Awarded: / 20

20 points
Please include the amount and a brief explanation of the use of funds per cost category not to exceed $50,000 over two years. Allowable expenditures may include the following categories:

Budget Category	Total Request	Year 1	Explanation of Funds	Year 2	Explanation of Funds
Professional Learning	6380	3190	Kingsley Elementary will send each of its educators to a professional learning conference in year one. - $2,190 To provide additional professional development to teachers and staff Kingsley Elementary will bring in a software expert to train staff. - $1000	3190	Kingsley Elementary will continue the expectation that each of its educators attend a professional learning conference in year two. - $2,190 To provide additional professional development to teachers and staff Kingsley Elementary will

					bring in a software expert to train staff. - $1000
Curriculum	8240	4875	In year one Kingsley Elementary will use funding to: Reimburse teachers that assist with summer curriculum writing - $2,250 Purchase software licenses and computer science applications - $2,625 • Tynker license - $2,400 • Apps - $225	3365	In year two Kingsley Elementary will use funding to: Reimburse teachers that revise computer science curriculum in the summer of 2020- $740 Renew software licenses and computer science applications to provide consistency in materials for our curriculum plans - $2,625 • Tynker license - $2,400 • Apps - $225
Site Visits	0	0		0	

District Costs	27,950	27,950	In year one Kingsley Elementary will use funding to:
			Update infrastructure in the elementary wing of the school.
			• Additional Wifi Access Points - $2,325
			  • 3 Aerohive Networks Model AP230 at $500
			  • 3 Aerohive 3 Year Subscription at $275
			• Labor and installation costs - $500
			• Wiring and Cable - $500
			Purchase hardware and programmable devices for students to practice and demonstrate their understanding of computer science - $24, 625
			• 60 Chromebooks at $250 - $15,000
			• 25 iPads at $300 - $7,500
			• 10 Bee Bots at $100 - $1,000
			• 5 Dash Robots at $150 - $750
			• 25 iPad Cases at $15 - $375		

Staffing Support	6800	4900	In year one Kingsley Elementary will use funding to: Pay for substitute teachers as classroom teachers visit exemplary computer science schools • Loess Hills Computer Science Specialty School	1900	In year two Kingsley Elementary will use funding to: Pay for substitute teachers as classroom teachers attend technology related professional learning conferences • ITEC Conference

			• 3 ½ day visits with 6 teachers - $900 • Harrisburg, South Dakota • 3 full day visits with 7 teachers - $2,100 Pay for substitute teachers as classroom teachers attend technology related professional learning conferences • ITEC Conference • 6 teachers attending one conference day - $600 • Iowa 1:1 Conference • 5 teachers attending conference - $500 • NETA Conference • 5 teachers attending one conference day - $500 Transportation/Bussing costs for student field trips • 3 field trips - $300		• 6 teachers attending one conference day - $600 • Iowa 1:1 Conference • 5 teachers attending conference - $500 • NETA Conference • 5 teachers attending one conference day - $500 Transportation/Bussing costs for student field trips • 3 field trips - $300
Other Costs	630	315	In year one, Kingsley Elementary estimates spending $315 to reimburse teachers for meals and travel expenses.	315	In year two, Kingsley Elementary estimates spending $315 to reimburse teachers for meals and travel expenses.
Total	50,000	41,230		8,770	

Cost Sharing (may include in-kind or cash from partners or other education funding streams)
Anticipated cost share over the two-year funding period.
Kingsley Elementary has applied for an additional grant opportunity from Aureon/WiaTel to financially support our goals through this grant. The Aureon/WiaTel Charity grant is available to apply for every quarter. Kingsley Elementary plans to apply for this funding again for the 2020-2021 school year. At this time, no funding has been awarded.

Several community businesses have are willing to financially support or computer science goals in conjunction to the grant.

The total possible cost sharing over the two year period is $12,134.85.

Year 1 anticipated cost share (in dollars). Please provide a brief explanation.

- Kingsley Elementary has applied for $5034.85 through the Aureon/WiaTel Charity Grant.
- Agri Business is willing to financially support our computer science objectives in the amount of $250.
- Panther Ball is willing to financially support our computer science objectives in the amount of $500.
- Seglem Farms is willing to financially support our computer science objectives in the amount of $100.
- Lammers Automotive is willing to financially support our computer science objectives in the amount of $200.
- Dirt Road Designs is willing to financially support our computer science objectives through discounts and free services.

The Year 1 anticipated cost share total is $6084.85.

Year 2 anticipated cost share (in dollars). Please provide a brief explanation.

- Kingsley Elementary will apply for $5,000 through the Aureon/WiaTel Charity Grant.
- Agri Business is willing to financially support our computer science objectives in the amount of $250.
- Panther Ball is willing to financially support our computer science objectives in the amount of $500.
- Seglem Farms is willing to financially support our computer science objectives in the amount of $100.
- Lammers Automotive is willing to financially support our computer science objectives in the amount of $200.
- Dirt Road Designs is willing to financially support our computer science objectives through discounts and free services.

The Year 2 anticipated cost share total is $6,050.

The expectation for the Computer Science is Elementary award is that the plan uses primarily existing school revenue sources to execute a plan. After year two of the award, what is the plan for sustainability using existing or any additional funding sources?
Kingsley Elementary will continue to seek out community and business support. We will continue to seek out additional grant opportunities to support our goals and objectives to help our students succeed in all areas including computer science also. Our district is supportive of our plan and will consider our sustainability options to continue progress in our computer science initiative.

Computer Science is Elementary Model Network

Points Awarded: / 10

10 points

To be eligible for the award, participation in the Computer Science is Elementary Model Network is necessary. By checking this box, the district/system/stand-alone non-public school is willing to participate in a Computer Science is Elementary Model Network including, but not limited to, hosting visits and sharing best practices, challenges, opportunities and successes with colleagues across the state.
I agree

AGRI BUSINESS INSURANCE, L.L.C.

107 E. Second Street • Schaller, IA 51053

1-877-848-1558

712-275-4192 (FAX)

712-275-4191

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: Agri Business Insurance

Contact information:

Contact Person(s): Lonnie Ploeger
Address: 107 East 2nd Street
Schaller, IA 51053
Phone Number: (712) 275-4191
Email Address: agribusiness@schallertel.net

__X__ Classroom Involvement (Guest speaker)

_____ Field Experience (Tour of our facility and how we use computer science)

__X__ Financial Donation upon the awarding of this grant

Year One Amount $ $250.00

Year Two Amount $ $250.00

Total Donation $ $500.00

We look forward to partnering with you on this opportunity.

Sincerely,

Lonnie Ploeger

Co-owner/General Manager

SUTER
Service that suits you!

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: CW Suter

Contact information:

Contact Person(s): Wendy McLarty
Address: 1800 11th Street
Sioux City, Iowa
Phone Number: 712-224-2421
Email Address: wmclaty@cwsuter.com

__X__ Classroom Involvement (Guest speaker)

__X__ Field Experience (Tour of our facility and how we use computer science)

_____ Financial Donation upon the awarding of this grant

Year One Amount $_____

Year Two Amount $_____

Total Donation $ _____

We look forward to partnering with you on this opportunity.

Sincerely,

Wendy McLarty
VP of Organizational Development

DIRT ROAD DESIGN

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee,

We are delivering this commitment to partner with the Computer Science Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following ways:

Classroom Involvement: Speak at the school about the topics; digital artwork creation, web programming, website building, graphic design, social media, and printing.

Field Experience: Tour of our shop and how we use computer science in printing and marketing.

Financial Donation: We will write you into our annual budget of discounts and free services donated to Kingsley non-profits.

We look forward to partnering with you on this opportunity.

Sincerely,

Drew Hackett

DREW HACKETT / OWNER, ART DIRECTOR
P. 712-378-2980 · C. 712-898-8987 · DREW@DIRTRD.COM
114 MAIN STREET · KINGSLEY, IA 51028

First Cooperative Association

Corporate Office • 960 Riverview Dr. • P.O. Box 60 • Cherokee, IA 51012
Phone 712-225-5400 • Fax 712-225-5493

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: First Cooperative Association

Contact information:

Contact Person(s): Chad Iseminger
Address: 18 W 1st St., PO Box 9
Kingsley IA 51028
Phone Number: 712-378-2888
Email Address: ciseminger@firstcoop.com

_____X__ Classroom Involvement (Guest speaker)

_____ Field Experience (Tour of our facility and how we use computer science)

_____ Financial Donation upon the awarding of this grant

Year One Amount $_____

Year Two Amount $_____

Total Donation $ _____

We look forward to partnering with you on this opportunity.

Sincerely,

Chad Iseminger
Kingsley Location Manager

H&H Builders, Inc.

GENERAL CONTRACTORS

H&H Builders
317 E. 1st St.
Kingsley, IA. 51028

Dear Kingsley-Pierson School,

H&H Builders would like to partner with the Computer Science Elementary grant and Kingsley-Pierson Elementary. We would like your students to tour our facility in the winter of 2021. We look forward to showing your students how we use computer science.

Thanks, Emily

Emily Harvey
Office Manager
317 E. 1st Street
Kingsley, IA. 51028
712-378-2998
hhbuildersemily@frontier.com

JIM HARVEY AGENCY, INC.

Kingsley-Pierson School

322 Quest Avenue

Kingsley, Iowa 51028

Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: _Jim Harvey Agency_____

Contact information:

Contact Person(s): _Bart Boustead_____

Address: _204 Main St,_____

Kingsley, IA 51028 _____

Phone Number: _(712) 378-2830_____

Email Address: _bart@jimharveyagency.com_____

___X___ Classroom Involvement (Guest speaker)

_____ Field Experience (Tour of our facility and how we use computer science)

_____ Financial Donation upon the awarding of this grant

Year One Amount $_____

Year Two Amount $_____

Total Donation $ _____

We look forward to partnering with you on this opportunity.

Sincerely,

Bart C Boustead

Bart Boustead, Co-Owner

GELITA
Improving Quality of Life

March 25, 2019

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:
As follow up to our conversation(s), we are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: GELITA USA

Contact information:

Contact Person(s):	Jeff Tolsma
Address:	2445 Port Neal Industrial Road Sergeant Bluff, IA 51054
Phone Number:	712-943-1662
Email Address:	Jeff.Tolsma@gelita.com

___X___ Classroom Involvement (Guest speaker)

_____ Field Experience (Tour of our facility and how we use computer science)

_____ Financial Donation upon the awarding of this grant

Year One Amount $_____

Year Two Amount $_____

Total Donation $ _____

We look forward to partnering with you on this opportunity.

Please feel free to contact me if you have any questions.

Thank you and kind regards,

_____
Jeff Tolsma SHRM-SCP, SPHR, MBA
Vice President, Human Resources/EHS&Q
GELITA USA

GELITA USA Inc.
P.O. Box 927, Sioux City, IA 51102-0927
Telephone: 712-943-5516 • Fax 712-943-3372
Location Address: 2445 Port Neal Industrial Rd.
Sergeant Bluff, IA 51054
www.GELITA.com

LAMMERS AUTOMOTIVE
Kingsley, Iowa • (712) 378-3352

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: Lammers Automotive

Contact information:

Contact Person(s): Travis or Jackie Lammers
Address: 217 W. 4th Street, Kingley, IA 51028
Phone Number: 712-870-1310
Email Address: lammersautomotive@yahoo.com

___x____ Classroom Involvement (Guest speaker)

____x___ Field Experience (Tour of our facility and how we use computer science)

____x___ Financial Donation upon the awarding of this grant

Year One Amount $____200_____

Year Two Amount $____200_____

Total Donation $___400_____

We look forward to partnering with you on this opportunity.

Sincerely,

Jackie Lammers

Jackie Lammers

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: Riverside Technologies, Inc. (RTI)

Contact information:
Contact Person(s): Daniel Lynde & Slater Ohm
Address: 105 Gateway Drive
Phone Number: 605-242-0407
Email Address: danl@1rti.com, sohm@1rti.com

X Classroom Involvement (Guest speaker)

_____ Field Experience (Tour of our facility and how we use computer science)

_____ Financial Donation upon the awarding of this grant

Year One Amount $ N/A

Year Two Amount $ N/A

Total Donation $ N/A

We look forward to partnering with you on this opportunity.

Sincerely,

Daniel L. Lynde
Director of Marketing

SEGLEM FARMS
47239 C66
Kingsley, Iowa 51028

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: SEGLEM FARMS

Contact information:
Contact Person(s): JOEL OR MICHELLE SEGLEM
Address: 524 WEST FIRST ST.
KINGSLEY, IA 51028
Phone Number: 712-899-4866 OR 712-251-2533
Email Address: jseglem@wwwl/waves.us - mseglem@wwwl/waves.us

_____ Classroom Involvement (Guest speaker)

__✓__ Field Experience (Tour of our facility and how we use computer science)

_____ Financial Donation upon the awarding of this grant

Year One Amount $ 100.00

Year Two Amount $ 100.00

Total Donation $ 200.00

We look forward to partnering with you on this opportunity.

Sincerely, Joel Seglem (OWNER OPERATOR)

Panther Ball Committee
PO Box 293
Kingsley, IA 51028

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our community organization would like to partner with you in the following way(s):

Company Name: Panther Ball

Contact information:

Contact Person(s): Scott Bohle (Committee Member)
Address: PO Box 293
Kingsley, IA 51028
Phone Number: (712) 540 - 2086
Email Address: ssbohle@frontier.com

_____ Classroom Involvement (Guest speaker)

_____ Field Experience (Tour of our facility and how we use computer science)

__X__ Financial Donation upon the awarding of this grant

Year One Amount $ 500.00

Year Two Amount $ 500.00

Total Donation $ 1000.00

We look forward to partnering with you on this opportunity.

Sincerely,

Scott Bohle

Scott Bohle
Panther Ball Committee Member

TITAN MACHINERY

112 Hwy 140 North
P.O. Box 369
Kingsley, IA 51028

Phone: 712-378-3731
Fax: 712-378-3643
Toll Free: 800-765-2944

Kingsley-Pierson School
322 Quest Avenue
Kingsley, Iowa 51028
Attn: Erin Hoffman

Dear Kingsley-Pierson Computer Science Committee:

We are delivering this commitment to partner with the Computer Science is Elementary grant and Kingsley Elementary. Our business would like to partner with you in the following way(s):

Company Name: Titan Machinery

Contact information:

Contact Person(s): Korry Bowman, Gary Mohr or Ryan Stowater Shane Wilson
Address: 112 HW 140 N Kingsley
Phone Number: 712-378-3731
Email Address: Korry.bowman@titanmachinery.com

X Classroom Involvement (Guest speaker)

X Field Experience (Tour of our facility and how we use computer science)

_____ Financial Donation upon the awarding of this grant

Year One Amount $_____

Year Two Amount $_____

Total Donation $ _____

We look forward to partnering with you on this opportunity.

Sincerely, Korry Bowman

Name
(Title) Equipment Sales Consultant

CASE IH

March 25, 2019

Aureon Charity Grant Program
7760 Office Plaza Drive South
West Des Moines, IA 50266

Dear Aureon Charity Grant Committee:

I would like to recommend the Kingsley Pierson Computer Science STEM program for a Charity Grant. The program introduces kids to the world of computer science through classroom learning, field trips and hands on activities. The STEM program encourages kids to continue their learning through science, technology, engineering and mathematics. The grant will allow students to experience a more engaging, authentic, project-based, and higher-order curriculum that without the grant they may not be able to afford.

We support the Kingsley Pierson STEM program's efforts and hope that you will, too. Pending board approval, Wiatel will make a contribution to the program if Aureon funds the project.

Wiatel is very supportive of the communities we serve and projects such as this one that benefit the youth in our service area. We appreciate Aureon's continued community support and together we look forward to promoting this quality program in our service area.

Sincerely,

Randi Weaver

Randi Weaver
Marketing Specialist
Wiatel-Western Iowa Telecom

202 Cedar Street • PO Box 38 • Lawton, IA 51030 • 712-944-5711 • Fax 712-944-5722 • www.wiatel.com •

Reviewer Name:

Reviewer Signature: **Total Points Awarded:** **/100**